

Serial No.: 09/856,164  
Atty. Docket No.: P66724US0

IN THE CLAIMS:

Please amend and add claims as follows:

1. (Currently Amended) ~~A system~~ An apparatus for transforming the movements of at least one joint of a user selected from the group constituted by the knee, the elbow, the shoulder, the hip, or the ankle, into control signals for a computer, the ~~system~~ apparatus comprising a sleeve ~~(21d, 21g, 41d, 41g)~~ for putting on over the joint and a movement sensor ~~(20d, 20g, 40d, 40g)~~ fixed to the sleeve for the sensor to be placed and held in a hollow of the joint, the apparatus being characterized in that the said sensor being ~~(20d, 20g, 40d, 40g)~~ is an on/off sensor that and is directly subject to the movements of the sleeve ~~(21d, 21g, 41d, 41g)~~ in the hollow of the joint.

*B8*

2. (Currently Amended) Apparatus according to claim 1, characterized in that wherein the sensor ~~(20d, 20g, 40d, 40g)~~ is designed to be placed and held in the hollow of the joint senses bending movement of said joint on the hollow of which the sensor is placed.

3. (Currently Amended) Apparatus according to claim 1, characterized in that wherein the sensor includes a magnetic detector ~~(23d)~~ for placing on one side of the joint and a piece

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~~(22d)~~ that is detectable by the detector ~~(23d)~~ and placed on the ~~other~~ another side of the joint.

4. (Currently Amended) Apparatus according to claim 1, ~~characterized in that~~ wherein the sensor includes an air bag ~~(220d)~~ and a sensor ~~(23d)~~ responsive to a pressure increase that appears in said air bag ~~(210d)~~.

5. ((Currently Amended) Apparatus according to claim 1, ~~characterized in that~~ wherein the sensor ~~(20d, 20g, 40d, 40g)~~ includes a mechanically-controlled switch ~~(123d)~~ for placing on a first side of the joint, and a projecting piece ~~(122d)~~ for placing on ~~the~~ an opposite side of the joint and designed to constitute an abutment for said mechanically-controlled switch ~~(123d)~~.

6. (Currently Amended) Apparatus according to claim 1, ~~characterized in that~~ wherein the sensor ~~(20d, 20g, 40d, 40g)~~ is designed to be placed on a shoulder of the user.

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7. (Currently Amended) Apparatus according to claim 1,  
~~characterized in that~~ wherein the ~~sensor~~ sensors ~~(20d, 20g, 40d,~~  
~~40g)~~ is designed to be placed on a hip of the user.

8. (Currently Amended) Apparatus according to claim 1,  
~~characterized in that~~ wherein the ~~sensor~~ ~~(20d, 20g, 40d, 40g)~~ is  
designed to be placed on an ankle joint.

9. (Currently Amended) Apparatus according to claim 1,  
~~characterized in that~~ it comprises further comprising mechanical  
members ~~(10, 30d, 30g)~~ for applying mechanical actions on parts  
of the user's body under ~~the~~ control of the a computer.  
*b6*

10. (Currently Amended) Apparatus according to claim 1,  
~~characterized in that~~ it includes further comprising a processor  
module ~~(10)~~ suitable for transforming the output signals from the  
sensor ~~(20d, 20g, 40d, 40g)~~ into signals usable by the computer.

11. (New) An apparatus for transforming bending movements  
of at least one joint of a user selected from the group  
constituted by the knee, the elbow, the shoulder, the hip, and  
the ankle, into control signals for a computer, the apparatus

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comprising a sleeve and a movement sensor fixed to the sleeve, said sensor being placed and held in a hollow of the joint for which the bending movements are to be sensed, said sensor being an on/off sensor that is directly subject to movements of the sleeve in the hollow of the joint.

12. (New) Apparatus according to claim 11, wherein the sensor includes a magnetic detector for placing on one side of the joint and a piece that is detectable by the detector and placed on ~~the other~~ another side of the joint.

13. (New) Apparatus according to claim 11, wherein the sensor includes an air bag and a sensor responsive to a pressure increase that appears in said air bag.

14. (New) Apparatus according to claim 11, wherein the sensor includes a mechanically-controlled switch for placing on a first side of the joint, and a projecting piece for placing on an the opposite side of the joint and designed to constitute an abutment for said mechanically-controlled switch.

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15. (New) Apparatus according to claim 11, wherein the sensor is designed to be placed on a shoulder of the user.

16. (New) Apparatus according to claim 11, wherein the sensor is designed to be placed on a hip of the user.

17. (New) Apparatus according to claim 11, wherein the sensor is designed to be placed on an ankle joint.

18. (New) Apparatus according to claim 11, further comprising mechanical members for applying mechanical actions on parts of the user's body under control of the computer.

19. (New) Apparatus according to claim 11, further comprising a processor module suitable for transforming output signals from the sensor into signals usable by the computer.